

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|---------------------|
| S1 | 1 | ("20060231176").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/03/06 15:22 |
| S2 | 1 | ("2002226937").PN. | JPO | OR | OFF | 2008/03/06 15:40 |
| S3 | 584 | 148/603.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:19 |
| S5 | 448 | 420/119.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:22 |
| S6 | 361 | 420/120.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:22 |
| S7 | 437 | 148/603.ccls. and cold and roll\$3 and hot and coil\$3 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:25 |
| S8 | 284 | 148/603.ccls. and cold and roll\$3 and hot and coil\$3 and anneal\$3 and cool\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:25 |
| S9 | 284 | 148/603.ccls. and cold and roll\$3 and hot and coil\$3 and anneal\$3 and cool\$3 and steel | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:25 |
| S10 | 53 | 420/119.ccls. and ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:27 |

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| S11 | 36 | 420/120.ccls. and ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:27 |
| S12 | 2685 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:28 |
| S13 | 777 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 and steel and ferrit\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:29 |
| S14 | 333 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 and steel and ferrit\$2 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:32 |
| S15 | 287 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 and steel and ferrit\$2 and coil\$3 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:35 |
| S16 | 1 | "2000144316" | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:41 |
| S17 | 3 | "10147838" | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:42 |

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|-----|-----|--|---|-----|----|---------------------|
| S18 | 1 | "2001073064" | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:42 |
| S19 | 1 | "2004169180" | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/03/11 10:42 |
| S20 | 443 | 148/603.ccls. and cold and roll\$3 and hot and coil\$3 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/11/25 11:13 |
| S21 | 289 | 148/603.ccls. and cold and roll\$3 and hot and coil\$3 and anneal\$3 and cool\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/11/25 11:13 |
| S22 | 289 | 148/603.ccls. and cold and roll\$3 and hot and coil\$3 and anneal\$3 and cool\$3 and steel | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/11/25 11:13 |
| S23 | 53 | 420/119.ccls. and ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/11/25 11:13 |
| S24 | 38 | 420/120.ccls. and ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/11/25 11:13 |
| S25 | 313 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 and steel and ferrit\$2 and coil\$3 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/11/25 11:14 |

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| S26 | 2837 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:08 |
| S27 | 1418 | 148/320,337.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:12 |
| S28 | 455 | 420/119.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:12 |
| S29 | 371 | 420/120.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:12 |
| S30 | 600 | 148/603.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:12 |
| S31 | 2660 | S27 or S28 or S29 or S30 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:13 |
| S32 | 301 | S26 and S31 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:13 |
| S33 | 301 | S32 and cold same roll\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:13 |
| S34 | 186 | S33 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:14 |
| S35 | 449 | 148/603.ccls. and cold and roll\$3 and hot and coil\$3 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:14 |
| S36 | 295 | 148/603.ccls. and cold and roll\$3 and hot and coil\$3 and anneal\$3 and cool\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:15 |

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| S37 | 295 | 148/603 ccls. and cold and roll\$3 and hot and coil\$3 and anneal\$3 and cool\$3 and steel | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:15 |
| S38 | 54 | 420/119 ccls. and ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:15 |
| S39 | 39 | 420/120.ccls. and ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:15 |
| S40 | 337 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 and steel and ferrit\$2 and coil\$3 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/02 11:15 |
| S41 | 4 | "2003084966" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/11/23 15:44 |
| S42 | 2 | "20030084966" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/11/23 15:44 |
| S43 | 3 | "6743307" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/11/23 17:09 |
| S44 | 2 | "6572716" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/12/03 12:09 |
| S45 | 2 | "20020179193" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/12/03 14:00 |

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| S46 | 3 | "2002317249" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/12/03 14:34 |
| S47 | 12 | "5123969" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/12/03 15:28 |
| S48 | 3 | "0109396" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/12/03 15:41 |
| S49 | 1 | "200109396" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/12/03 15:41 |
| S50 | 2906 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:12 |
| S51 | 1454 | 148/320,337.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:12 |
| S52 | 466 | 420/119.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:12 |
| S53 | 383 | 420/120.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:12 |
| S54 | 605 | 148/603.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:12 |
| S55 | 2716 | S51 or S52 or S53 or S54 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:12 |
| S56 | 318 | S50 and S55 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:12 |

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| S57 | 318 | S56 and cold same roll\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:12 |
| S58 | 203 | S57 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:12 |
| S59 | 2264 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:13 |
| S60 | 269 | S59 and S55 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:13 |
| S61 | 167 | S60 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:13 |
| S62 | 128 | S61 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:14 |
| S63 | 117 | S62 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:14 |
| S64 | 1247 | S59 and ("148".clas. or "420".clas.) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:15 |
| S65 | 674 | S64 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:15 |
| S66 | 128 | S62 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:16 |
| S67 | 297 | S65 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:16 |

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| S68 | 274 | S67 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/12/03 17:16 |
| S69 | 5 | "2001009396" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/12/03 17:18 |
| S70 | 4 | "01009396" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/12/03 17:19 |
| S71 | 1 | WO-0109396-\$.did. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/12/03 17:20 |
| S72 | 2 | "20030047256" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/07/31 18:48 |
| S73 | 3035 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:30 |
| S74 | 1507 | 148/320,337.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:30 |
| S75 | 473 | 420/119.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:30 |
| S76 | 399 | 420/120.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:30 |
| S77 | 612 | 148/603.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:30 |
| S78 | 2791 | S74 or S75 or S76 or S77 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:30 |

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| S79 | 342 | S73 and S78 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:30 |
| S80 | 342 | S79 and cold same roll\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:30 |
| S81 | 225 | S80 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:30 |
| S82 | 2370 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:31 |
| S83 | 292 | S82 and S78 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:31 |
| S84 | 188 | S83 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:31 |
| S85 | 143 | S84 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:31 |
| S86 | 126 | S85 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:31 |
| S87 | 1305 | S82 and ("148".clas. or "420".clas.) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:32 |
| S88 | 726 | S87 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:32 |
| S89 | 143 | S85 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:32 |

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| S90 | 330 | S88 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:32 |
| S91 | 297 | S90 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:32 |
| S92 | 1314 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nickel or Ni) same (iron or Fe)) and cold same roll \$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:32 |
| S93 | 107 | S92 and S78 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:33 |
| S94 | 107 | S93 and cold same roll\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:33 |
| S95 | 83 | S94 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:34 |
| S96 | 9 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) (nickel or Ni) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:34 |
| S97 | 979 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) same (nickel or Ni) same (iron or Fe)) and cold same roll \$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:34 |
| S98 | 94 | S97 and S78 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:35 |

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| S99 | 94 | S98 and cold same roll\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:35 |
| S100 | 72 | S99 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/07/31 21:35 |
| S101 | 3096 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S102 | 1536 | 148/320,337.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S103 | 479 | 420/119.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S104 | 411 | 420/120.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S105 | 615 | 148/603.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S106 | 2833 | S102 or S103 or S104 or S105 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S107 | 357 | S101 and S106 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S108 | 357 | S107 and cold same roll \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S109 | 238 | S108 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |

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|------|------|--|---|-----|----|---------------------|
| S110 | 2418 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) same (iron or Fe)) and cold same roll\$3 | US-PGRUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S111 | 304 | S110 and S106 | US-PGRUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S112 | 198 | S111 and (microstructure or ferrit\$3 or martensit \$3) | US-PGRUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S113 | 150 | S112 and coil\$3 | US-PGRUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S114 | 133 | S113 and anneal\$3 | US-PGRUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:13 |
| S115 | 1332 | S110 and ("148".clas. or "420".clas.) | US-PGRUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:14 |
| S116 | 750 | S115 and (microstructure or ferrit\$3 or martensit \$3) | US-PGRUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:14 |
| S117 | 150 | S113 and coil\$3 | US-PGRUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:14 |
| S118 | 346 | S116 and coil\$3 | US-PGRUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:14 |
| S119 | 310 | S118 and anneal\$3 | US-PGRUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:14 |

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| S120 | 1335 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nickel or Ni) same (iron or Fe)) and cold same roll \$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:15 |
| S121 | 112 | S120 and S106 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:15 |
| S122 | 112 | S121 and cold same roll \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:15 |
| S123 | 86 | S122 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:15 |
| S124 | 9 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) (nickel or Ni) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:15 |
| S125 | 994 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) same (nickel or Ni) same (iron or Fe)) and cold same roll \$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:15 |
| S126 | 99 | S125 and S106 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:15 |
| S127 | 99 | S126 and cold same roll \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:15 |
| S128 | 75 | S127 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2010/12/21 09:15 |

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|------|----|---------------|--|-----|----|---------------------|
| S129 | 4 | "2003089851" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/03/24 16:46 |
| S130 | 2 | "20020179193" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/03/24 16:57 |
| S131 | 4 | "6743307" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/03/24 17:09 |
| S132 | 3 | "2003213369" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/03/29 16:48 |
| S133 | 7 | "2790009" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/03/30 11:17 |
| S134 | 5 | "6319338" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/03/30 11:27 |
| S135 | 6 | "6544354" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/03/30 13:12 |
| S136 | 11 | "10130782" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/03/30 14:26 |
| S137 | 2 | "08176729" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/03/30 14:26 |
| S138 | 13 | "5123969" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/03/30 14:37 |
| S139 | 9 | "5178693" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/03/30 14:44 |

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| S140 | 3200 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:41 |
| S141 | 1558 | 148/320,337.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:41 |
| S142 | 482 | 420/119.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:41 |
| S143 | 414 | 420/120.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:41 |
| S144 | 619 | 148/603.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:41 |
| S145 | 2863 | S141 or S142 or S143 or S144 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:41 |
| S146 | 371 | S140 and S145 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:41 |
| S147 | 371 | S146 and cold same roll \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:41 |
| S148 | 249 | S147 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:41 |
| S149 | 2503 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:42 |

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| S150 | 316 | S149 and S145 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:42 |
| S151 | 208 | S150 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:42 |
| S152 | 158 | S151 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:42 |
| S153 | 140 | S152 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:42 |
| S154 | 1356 | S149 and ("148".clas. or "420".clas.) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:42 |
| S155 | 772 | S154 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:42 |
| S156 | 158 | S152 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:42 |
| S157 | 362 | S155 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:42 |
| S158 | 325 | S157 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:42 |
| S159 | 1371 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nickel or Ni) same (iron or Fe)) and cold same roll \$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:43 |
| S160 | 118 | S159 and S145 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:43 |

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| S161 | 118 | S160 and cold same roll \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:43 |
| S162 | 92 | S161 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:43 |
| S163 | 9 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) (nickel or Ni) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:43 |
| S164 | 1021 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) same (nickel or Ni) same (iron or Fe)) and cold same roll \$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:43 |
| S165 | 104 | S164 and S145 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:43 |
| S166 | 104 | S165 and cold same roll \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:43 |
| S167 | 80 | S166 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/03/31 11:43 |
| S168 | 3289 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:09 |
| S169 | 1601 | 148/320,337.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:09 |

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| S170 | 485 | 420/119.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:09 |
| S171 | 417 | 420/120.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:09 |
| S172 | 625 | 148/603.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:09 |
| S173 | 2915 | S169 or S170 or S171 or S172 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:09 |
| S174 | 394 | S168 and S173 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:09 |
| S175 | 394 | S174 and cold same roll \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:09 |
| S176 | 269 | S175 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:09 |
| S177 | 2573 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:10 |
| S178 | 336 | S177 and S173 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:10 |
| S179 | 225 | S178 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:10 |
| S180 | 167 | S179 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:10 |

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| S181 | 149 | S180 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:10 |
| S182 | 167 | S180 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:10 |
| S183 | 1400 | S177 and ("148".clas. or "420".clas.) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:10 |
| S184 | 806 | S183 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:10 |
| S185 | 381 | S184 and coil\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:10 |
| S186 | 341 | S185 and anneal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:10 |
| S187 | 1421 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nickel or Ni) same (iron or Fe)) and cold same roll \$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:14 |
| S188 | 130 | S187 and S173 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:14 |
| S189 | 130 | S188 and cold same roll \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:14 |
| S190 | 103 | S189 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:14 |

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| S191 | 9 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) (nickel or Ni) same (iron or Fe)) and cold same roll\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:14 |
| S192 | 1054 | ((carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) same (nickel or Ni) same (iron or Fe)) and cold same roll \$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:14 |
| S193 | 113 | S192 and S173 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:14 |
| S194 | 113 | S193 and cold same roll \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:14 |
| S195 | 88 | S194 and (microstructure or ferrit\$3 or martensit \$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2011/09/13 17:14 |

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